

## **On-line Supplementary Material – Supplementary Figures 1-7**

### **Accuracy of a hand-held 3D imaging system for child anthropometric measurements in population-based household surveys and surveillance platforms: an effectiveness validation study in Guatemala, Kenya, and China**

**Bougma et al 2022**

Supplementary figure 1: Participant flow chart for 3D body imaging evaluation: (A) Guatemala, (B) Kenya, (C) China.

Supplementary figure 2: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA) for length (0-23 mo) or height (24-59 mo) in Guatemala, Kenya, and China for 3D body imaging evaluation.

Supplementary figure 3: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA) for mid-upper arm circumference in Guatemala, Kenya, and China for 3D body imaging evaluation

Supplementary figure 4: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA) for head circumference in China for 3D body imaging evaluation

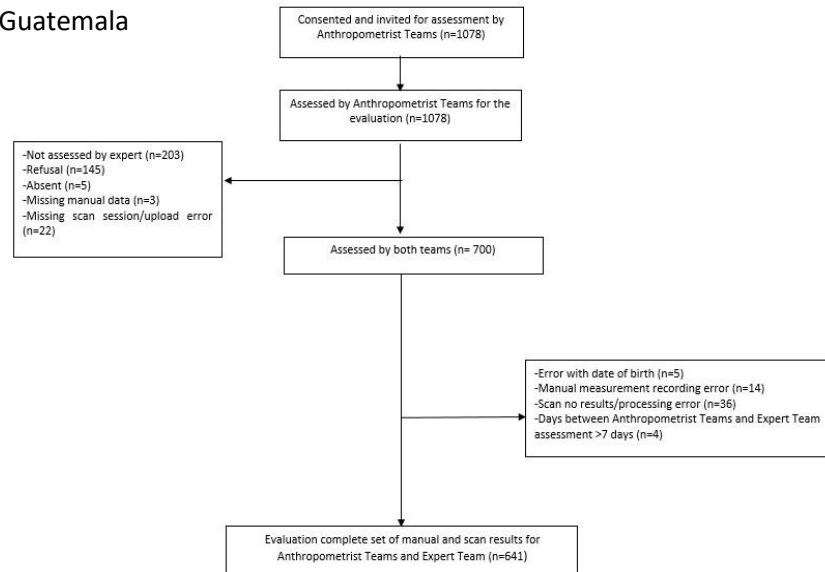
Supplementary figure 5: Inter-rater & inter-method accuracy concordance correlation coefficient (CCC) and 95%CI for length (0-23 mo) or height (24-59 mo) in Guatemala, Kenya, and China for 3D body imaging evaluation.

Supplementary figure 6: Inter-rater & inter-method concordance correlation coefficient (CCC) and 95%CI for mid-upper arm circumference in Guatemala, Kenya, and China for 3D body imaging evaluation: Children 0-59 mo

Supplementary figure 7: Inter-rater & inter-method concordance correlation coefficient (CCC) and 95%CI for head circumference in China for 3D body imaging evaluation

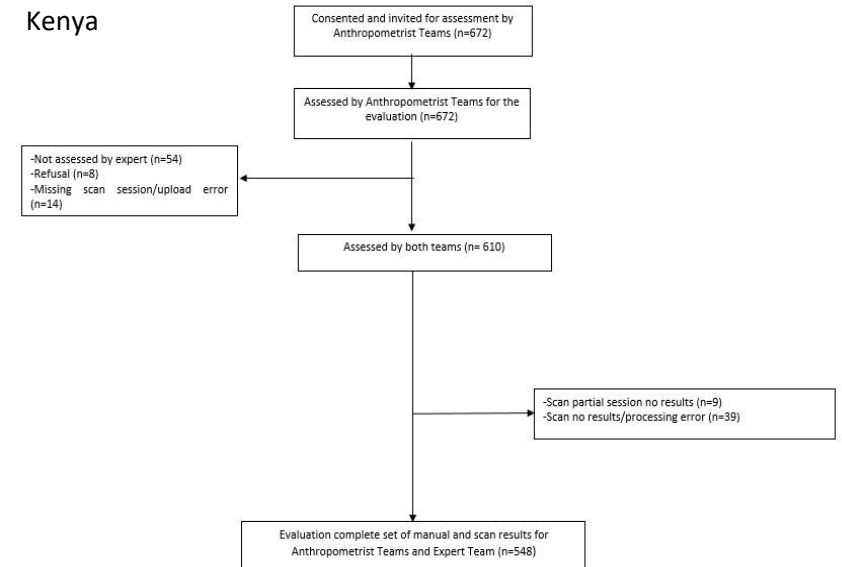
A

## Guatemala



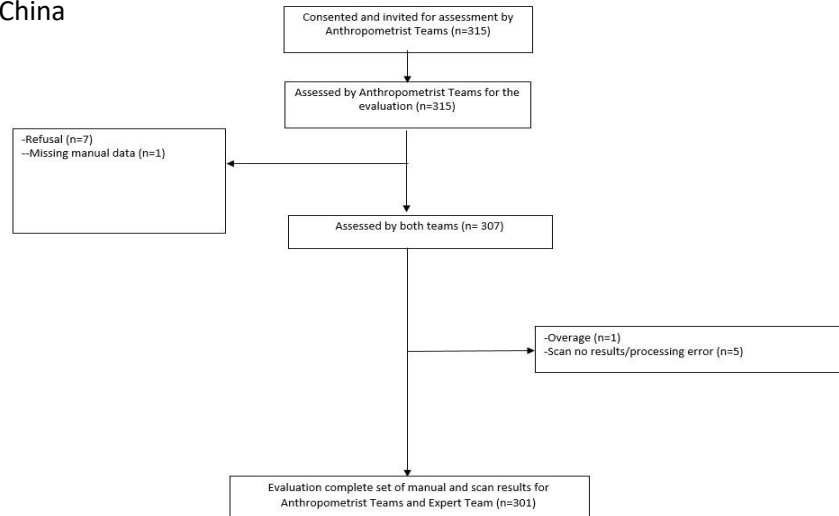
B

## Kenya



C

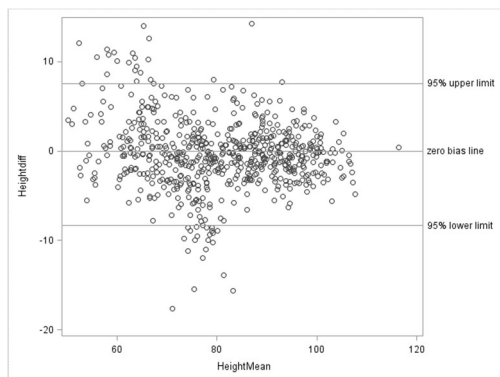
## China



Supplementary figure 1: Participant flow chart for 3D body imaging evaluation: (A) Guatemala, (B) Kenya, (C) China.

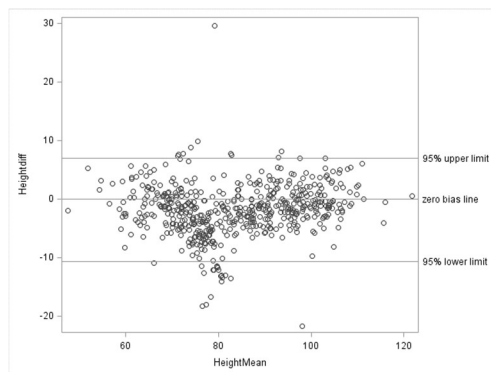
## Guatemala

A1



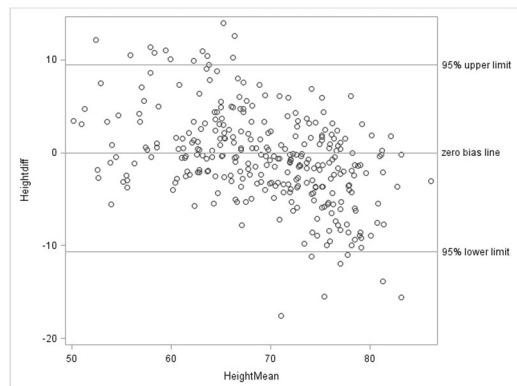
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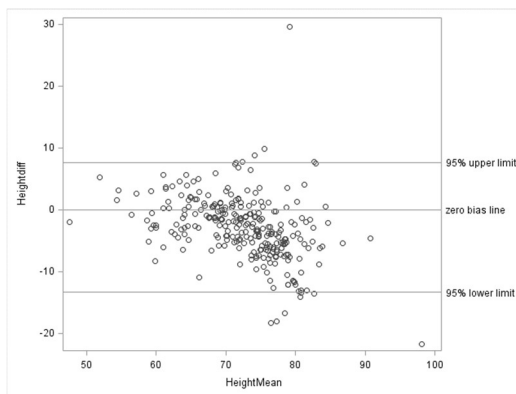


## China

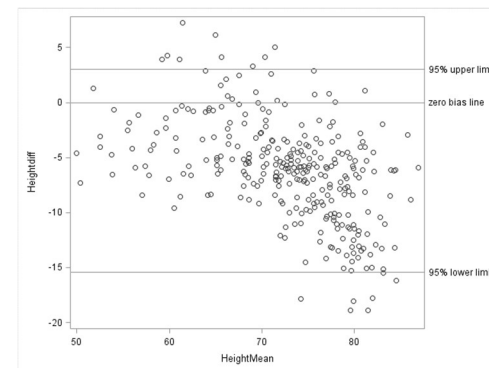
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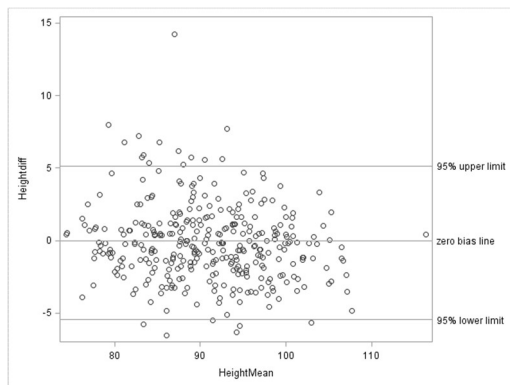
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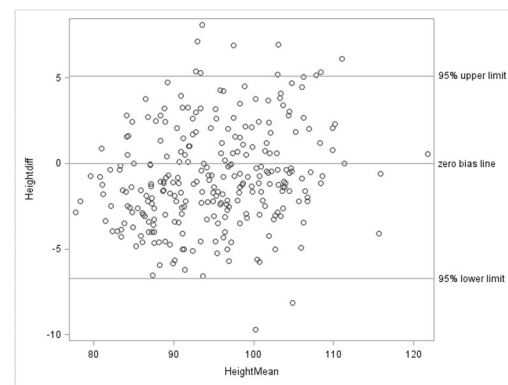
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C1



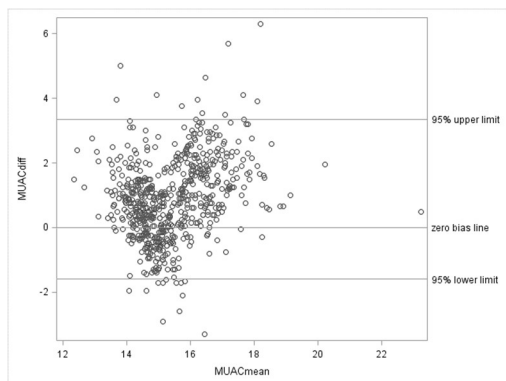
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Supplementary figure 2: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA) for length (0-23 mo) or height (24-59 mo) in Guatemala, Kenya, and China for 3D body imaging evaluation

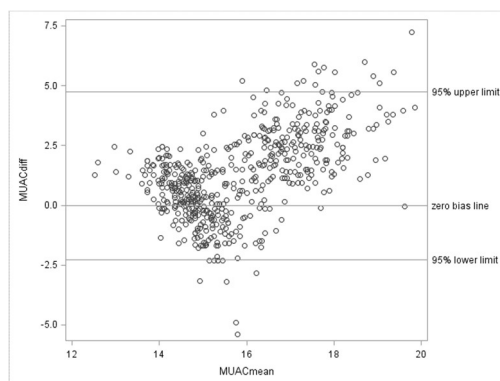
## Guatemala

A1



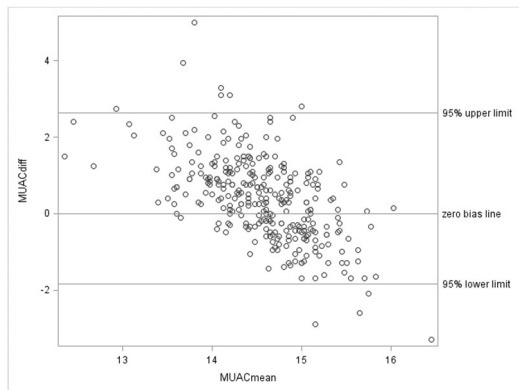
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A2

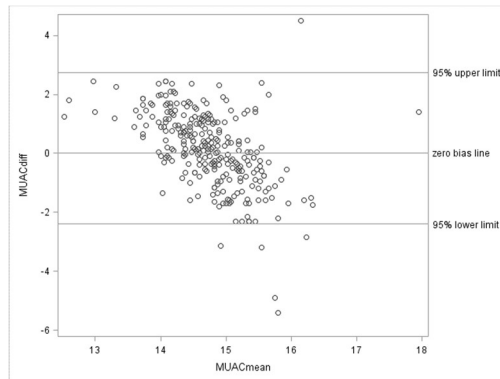


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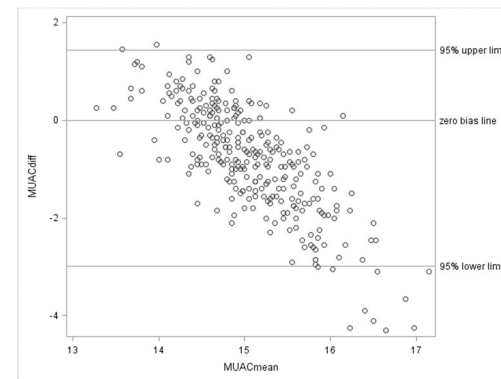
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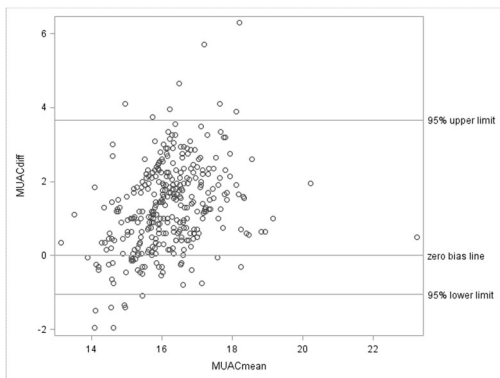
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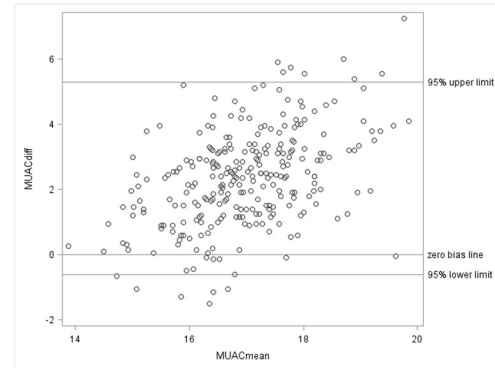
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C1

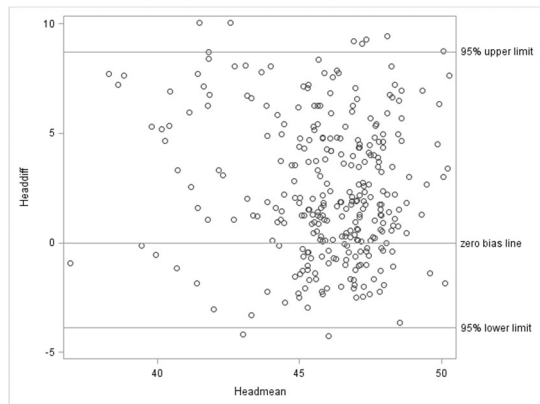


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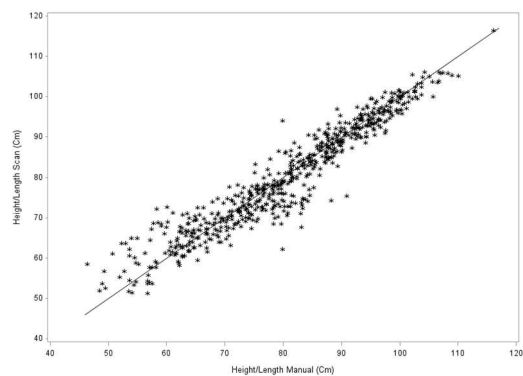
Supplementary figure 3: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA)  
for mid-upper arm circumference in Guatemala, Kenya, and China for 3D body imaging evaluation

## China



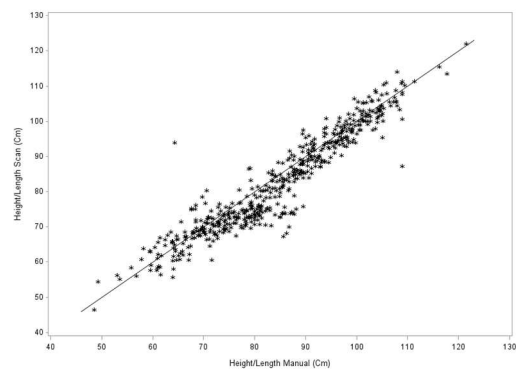
Supplementary figure 4: Inter-rater & inter-method Bland Altman bias and plots for lower and upper limits of agreement (lower LOA, Upper LOA) for head circumference in China for 3D body imaging evaluation

Guatemala



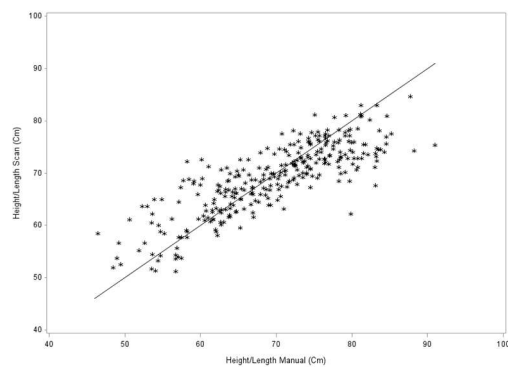
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Kenya

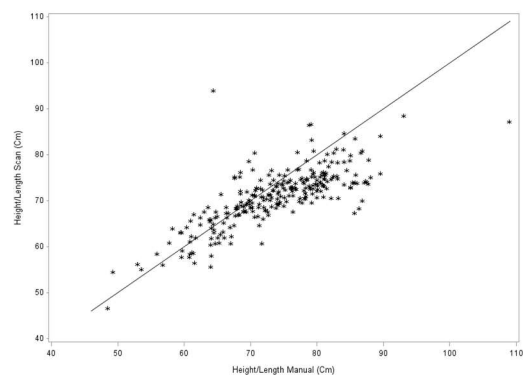


China

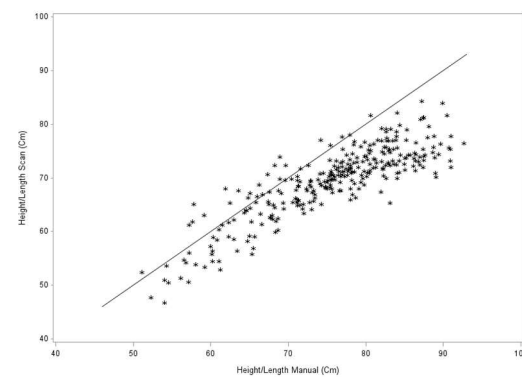
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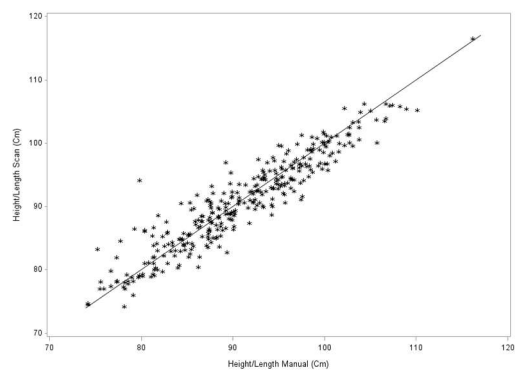
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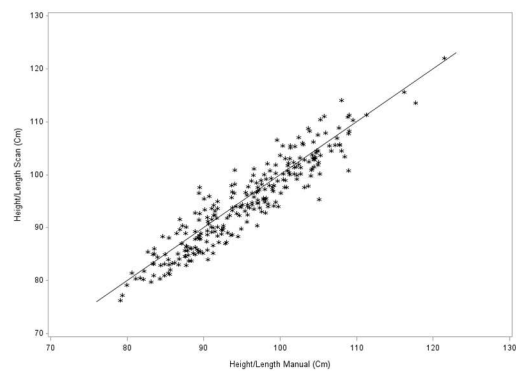
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C1



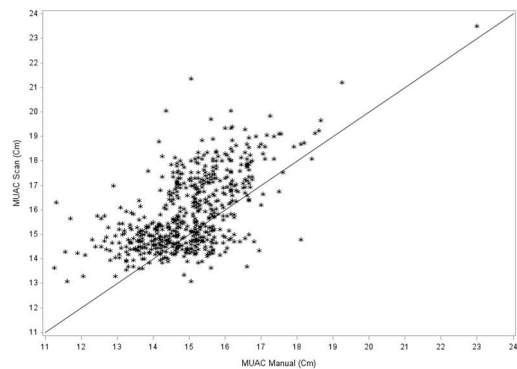
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Supplementary figure 5: Inter-rater & inter-method accuracy concordance correlation coefficient (CCC) and 95%CI for length (0-23 mo) or height (24-59 mo) in Guatemala, Kenya, and China for 3D body imaging evaluation.

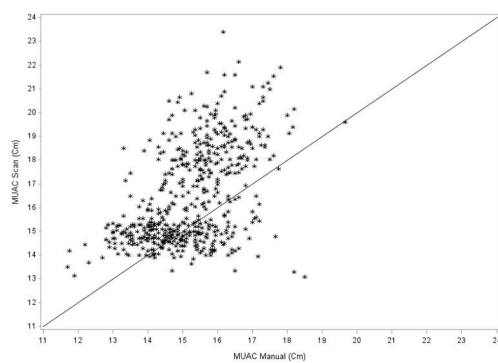
## Guatemala

A1



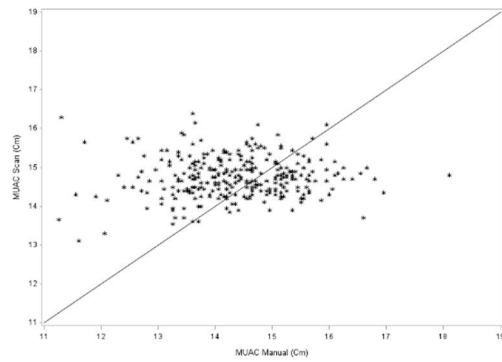
## Kenya

A2

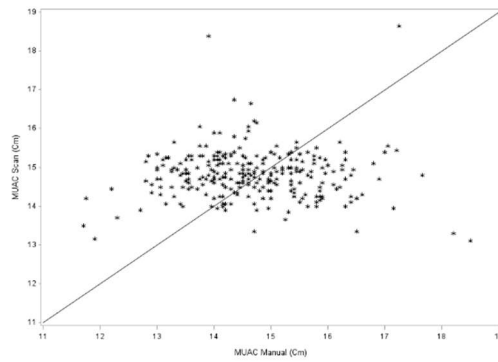


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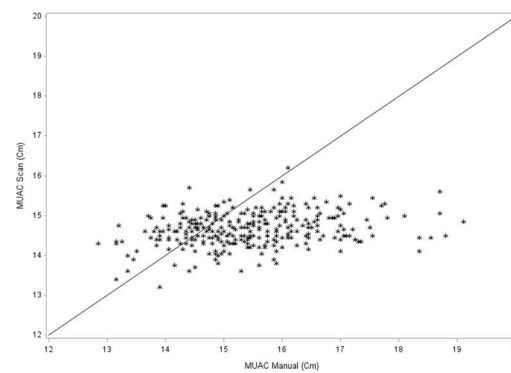
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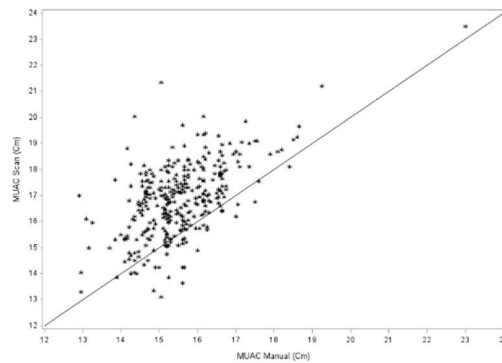
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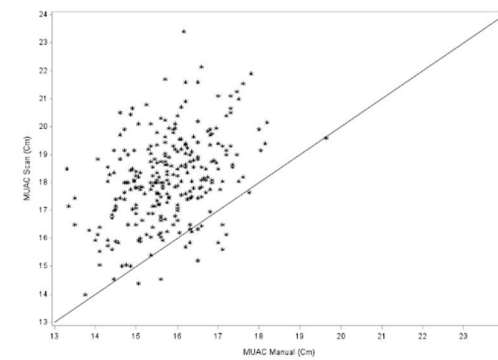
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C1

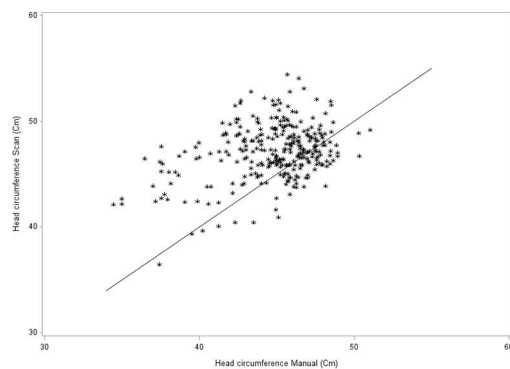


C2



Supplementary figure 6: Inter-rater & inter-method concordance correlation coefficient (CCC) and 95%CI for mid-upper arm circumference in Guatemala, Kenya, and China for 3D body imaging evaluation: Children 0-59 mo

## China



Supplementary figure 7: Inter-rater & inter-method concordance correlation coefficient (CCC) and 95%CI for head circumference in China for 3D body imaging evaluation